Listing of Claims:

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- 1. (Currently Amended) A microscopic image capture apparatus for capturing a sample image of a sample, said apparatus comprising:
- a low-magnification dividing device <u>for</u> dividing an entire area of a slide glass on a stage into field size sections of a predetermined low-powered objective lens;
- a transfer device for relatively transferring the slide glass on the stage in a direction perpendicular to an optical axis of the low-powered objective lens by relatively transferring the stage in the direction perpendicular to the axis of with respect to the objective lens;

an image information obtaining device <u>for</u> obtaining image information for each <u>of the</u> field size <u>section</u> <u>sections</u> each time the entire area of the slide glass is <u>sequentially</u> transferred by the transfer device <u>by</u> <u>sequentially</u> through the field size <u>section of the low-powered objective lens</u> <u>sections of the slide</u> glass;

a high-magnification dividing device <u>for</u> dividing the <u>obtained</u> image information for each field size section obtained by the image information obtaining device into high-magnification size sections corresponding to the <u>a</u> magnification of a predetermined high-powered objective lens;

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a sample image discrimination device <u>for</u> checking <u>each of</u>
the high-magnification size sections to determine whether or not
there is sample image information <u>of the sample</u> in the <u>obtained</u>
image information for each <u>of the</u> high-magnification size section
into which the image information is divided by the
high-magnification dividing device, <u>sections</u>, and for
discriminating the <u>(i) each</u> high-magnification size section
having the image information containing including the sample
image information as a sample image inclusion section, <u>from the</u>
and <u>(ii) each</u> high-magnification size section having the image
information containing including no sample image information as a
sample image exclusion section;

a high-magnification image capture device <u>for</u> capturing a high-magnification image <u>information</u> using the predetermined high-powered objective lens only for the <u>each said</u> high-magnification size section discriminated as the sample image inclusion section; and

an image information generation device for generating high-magnification composite image information about a the sample on the slide glass by generating the a high-magnification image such that the a relative position between the (i) an area of the high-magnification size section having the image corresponding to the high-magnification image information obtained from the image captured by the high-magnification image capture device and the

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(ii) an area of the high-magnification size section image corresponding to each said high-magnification size section discriminated as a sample image exclusion section and not captured by the high-magnification image capture device, can be correctly maintained.

- 2. (Currently Amended) The apparatus according to claim 1, further comprising an area determination device <u>for</u> determining a length and a width of a minimum area of the slide glass containing all the <u>each said</u> high-magnification size <u>sections</u>. <u>section</u> defined as <u>a sample image inclusion section</u> sections by the <u>sample image discrimination device</u>.
 - 3. (Currently Amended) The apparatus according to claim 1, wherein the image information generation device comprises a dummy data assignment device for assigning dummy data predetermined to be close similar to a background of the sample image as image information about the for each said high-magnification size section in the area of the high-magnification image not captured by the high-magnification image capture device.
 - 4. (Currently Amended) The apparatus according to claim 1, further comprising an <u>arbitrary</u> image information generation device <u>for</u> generating arbitrary image information containing

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having at least one of a different magnification, a different position, or and a different area, according to based on the high-magnification composite image information generated by the image information generation device.

5. (Original) The apparatus according to claim 1, further comprising a position determination device,

wherein the image information generation device obtains image information for a field size section while horizontally transferring an entire area of the capture position determined by the position determination device for each field size section of a low-powered objective lens by the transfer device.

Claims 6-8 (Canceled).

- 9. (Currently Amended) A microscopic image capture apparatus, comprising:
 - a low-powered objective lens;
 - a high-powered objective lens;
- a switch device <u>for</u> switching between the low-powered objective lens and the high-powered objective lens;
- a stage loaded with a sample storage device <u>for storing a</u> sample;

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an illumination device <u>for</u> illuminating a <u>the</u> sample stored by the sample storage device;

an image information obtaining device <u>for</u> obtaining image information about the sample by capturing a sample image generated using the low-powered objective lens and the high-powered objective lens;

- a stage drive mechanism <u>for</u> transferring the stage on a plane orthogonal to an optical observation axis of a microscope <u>on which the low-powered objective lens and the high-powered objective lens are mounted;</u>
- a high-magnification field section device <u>for</u> dividing a low-magnification image of the sample obtained using the low-powered objective lens into high-magnification field sections <u>each</u> corresponding to <u>a</u> field of the high-powered objective lens;
- a sample image presence presence check device for checking presence/absence of each of the high-magnification field sections to determine whether sample image information of the sample is present for each of the high-magnification field sections divided from the low-magnification image;
- a high-magnification image capture device <u>for</u> obtaining a high-magnification image by the high-powered objective lens from only for each of the high-magnification field sections determined to have <u>contain</u> the sample image information by the check device; and

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an image information generation device <u>for</u> generating a high-magnification composite image having <u>a</u> same field as the low-magnification image by combining the obtained high-magnification images in <u>positions</u> corresponding <u>to</u> positions of <u>the corresponding</u> high-magnification field sections.

- 10. (Currently Amended) The apparatus according to claim 9, wherein the image information generation device comprises a dummy data assignment device for assigning dummy data predetermined to be close similar to a background of the sample image as image information about the for each of the high-magnification size section sections not captured by the high-magnification image capture device.
- 11. (Currently Amended) The apparatus according to claim 9, further comprising an <u>arbitrary</u> image information generation device <u>for</u> generating arbitrary image information containing having at least one of a different magnification, a <u>different</u> position, or <u>and a different</u> area, according to <u>based on</u> the high-magnification <u>composite</u> image <u>information</u> generated by the image information generation device.

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12. (Currently Amended) A microscopic image capturing method for capturing a sample image of a sample, said method comprising:

dividing an entire area of a slide loaded with a the sample into first field size sections corresponding to a low-powered objective lens;

obtaining a low-magnification image of the slide glass for each of the first field size sections using the low-powered objective lens;

dividing the obtained low-magnification image for each of the first field size sections into second field size sections corresponding to a high-powered objective lens;

checking presence/absence each of the second field size

section to determine whether sample image information is present

for each of the second field size sections:

obtaining a high-magnification image using the high-powered objective lens <u>only</u> for <u>each of</u> the second field size section <u>sections</u> determined <u>in the check</u> to <u>have contain</u> the sample image information; and

generating a high-magnification composite image of the sample by combining the obtained high-magnification image images at positions corresponding to a relative position positions of the corresponding second field size section sections.

- 13. (Currently Amended) The method according to claim 12, wherein dummy data similar to a background of a the sample image is assigned to each of the second field size section sections for which the a corresponding said high-magnification image is not obtained.
- 14. (Currently Amended) The method according to claim 12, wherein arbitrary image information containing having at least one of a different magnification, a different position, or and a different area is generated and displayed based on the generated high-magnification composite image.

Claims 15-22 (Canceled).

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- 23. (New) A microscopic image capture apparatus comprising:
- a low-powered objective lens;
- a high-powered objective lens;
- a switch device for switching between the low-powered objective lens and the high-powered objective lens;
- a stage loaded with a sample storage device for storing a sample;
 - an illumination device for illuminating the sample;

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- a first image information obtaining device for generating a low-magnification sample image using the low-powered objective lens;
 - a stage drive mechanism for transferring the stage on a plane orthogonal to an optical observation axis of a microscope on which the low-powered objective lens and the high-powered objective lens are mounted;
 - a high-magnification field section device for dividing the low-magnification sample image into high-magnification field sections each corresponding to a field of the high-powered objective lens;
- a sample image presence check device for checking each of the high-magnification field sections to determine whether sample image information of the sample is present;
 - a second image information obtaining device for generating a high-magnification sample image using the high-powered objective lens only for each of the high-magnification field sections determined to contain the sample image; and
 - an image information generation device for generating a high-magnification composite image having a same field as the low-magnification image by combining the obtained high-magnification images in positions corresponding to positions of the corresponding high-magnification field sections.